

# LANGAN

Stone Manor Corporate Center, 2700 Kelly Road, Suite 200  
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**Langan Engineering, Environmental, Surveying and  
Landscape Architecture, D.P.C.**  
**Langan Engineering and Environmental Services, Inc.**  
**Langan International LLC**  
**Collectively known as Langan**

Project

**AMETEK U.S.  
GAUGE DIVISION  
SELLERSVILLE**

BUCKS COUNTY

**PENNSYLVANIA**

Drawing Title
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## TI BOUNDARY MONITORING WELL NETWORK

Project No.	220051801
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Date \_\_\_\_\_

5/8/13

Scale 1" = 250'

1"=250'

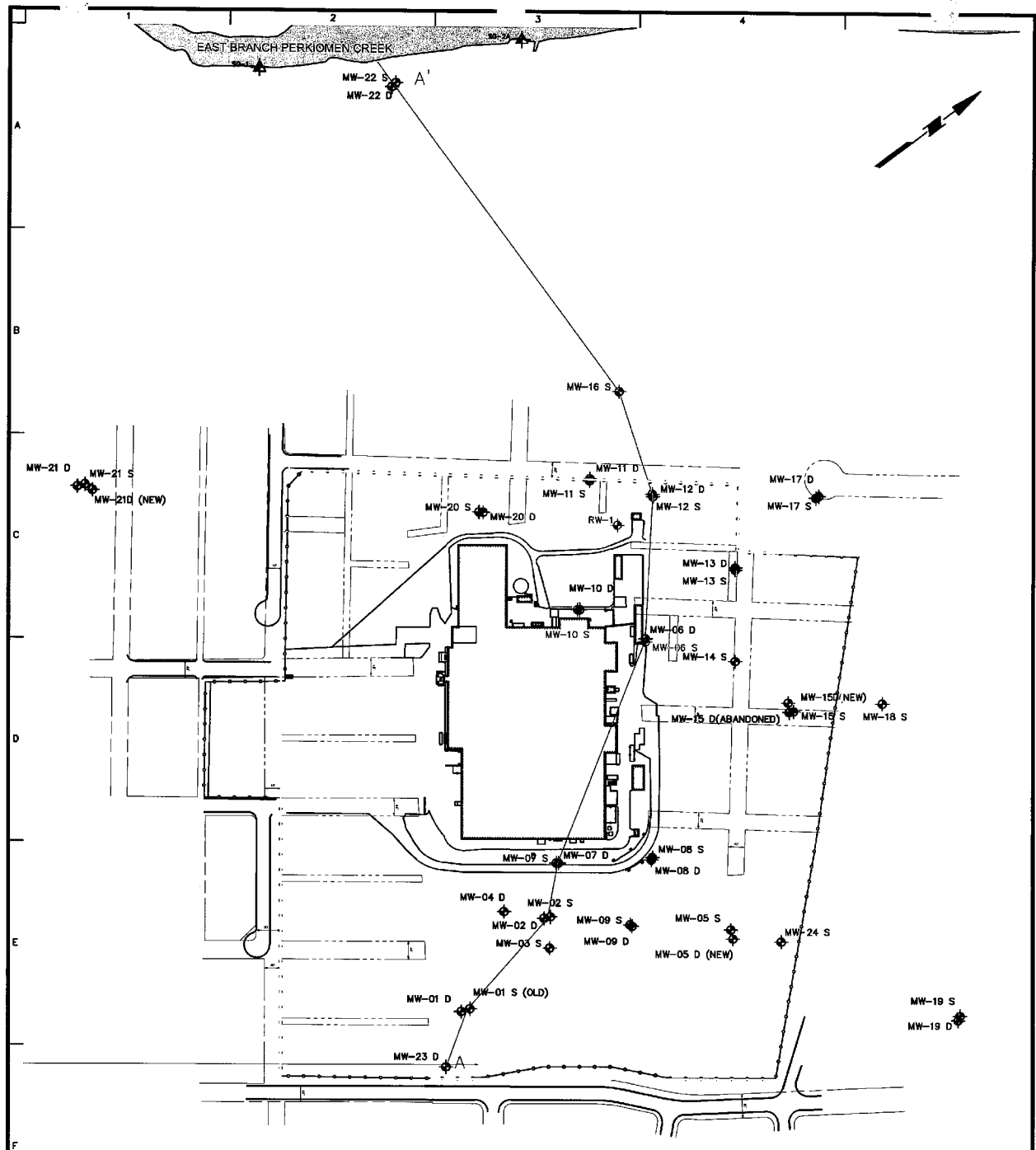
Drawn By  
MK

Submission Date

Drawing No.

2

Sheet 1 of 1



#### NOTES:

- NEW SITE WIDE BASEMAP SURVEY WAS SURVEYED BY TAYLOR WISEMAN & TAYLOR ON NOVEMBER 2011.

- RW-1, MW-6S, & MW-10S ARE ACTIVE IRM SYSTEM GROUNDWATER RECOVERY WELLS.

- MW-1S(NEW), MW-6D, AND MW-14D WERE ABANDONED AND REPLACEMENT WELL MW-6D(NEW) WAS INSTALLED, APRIL 2005 AS RECOMMENDED IN THE FINAL LETTER REPORT ON THE ADDITIONAL ENVIRONMENTAL INVESTIGATION ACTIVITIES CONDUCTED IN JULY 2004 (REPORT).

- WELLS MW-21D (NEW) AND MW-15D (NEW) WERE INSTALLED TO REPLACE MW-15D AND MW-21D IN FEBRUARY 2006. MW-21D AND MW-15D APPEAR TO HAVE BEEN OVERGROUTED DURING THE APRIL 2005 PARTIAL ABANDONMENT EFFORT AND WERE NOT IN HYDRAULIC COMMUNICATION WITH THE AQUIFER. MW-15D AND MW-21D WERE ABANDONED ON FEBRUARY 9, 2006 AND APRIL 13, 2006, RESPECTIVELY.

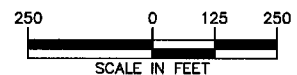
- TI MONITORING WELLS DISPLAYED IN BLUE COMPRISE THE PROPOSED TI BOUNDARY MONITORING WELL NETWORK. MW-21S AND MW-21D(NEW) LIE BEYOND THE TI BOUNDARY; HOWEVER, THEY WILL BE MONITORED UNTIL MCLs ARE OBTAINED. IN ADDITION, MW-22D WILL BE MONITORED FOR 1,4-DIOXANE.

- MAIN BUILDING AND OUT STRUCTURES WERE DEMOLISHED IN 2012.

#### LEGEND

- TI BOUNDARY
- PROPERTY NOT OWNED BY AMETEK
- SITE STRATIGRAPHY CROSS-SECTION
- MONITORING WELLS THAT COMPRISE THE TI BOUNDARY MONITORING WELL NETWORK.
- SITE MONITORING WELL LOCATION
- IRM PUMPING WELL LOCATION

MW-1  
MW-23D  
RW-1



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SELLERSVILLE**

BUCKS COUNTY

PENNSYLVANIA

Drawing Title

**GEOLOGIC  
CROSS-SECTION  
LOCATION**

Project No.

220051801

Date

5/8/13

Scale

1"=250'

Drawn By

MK

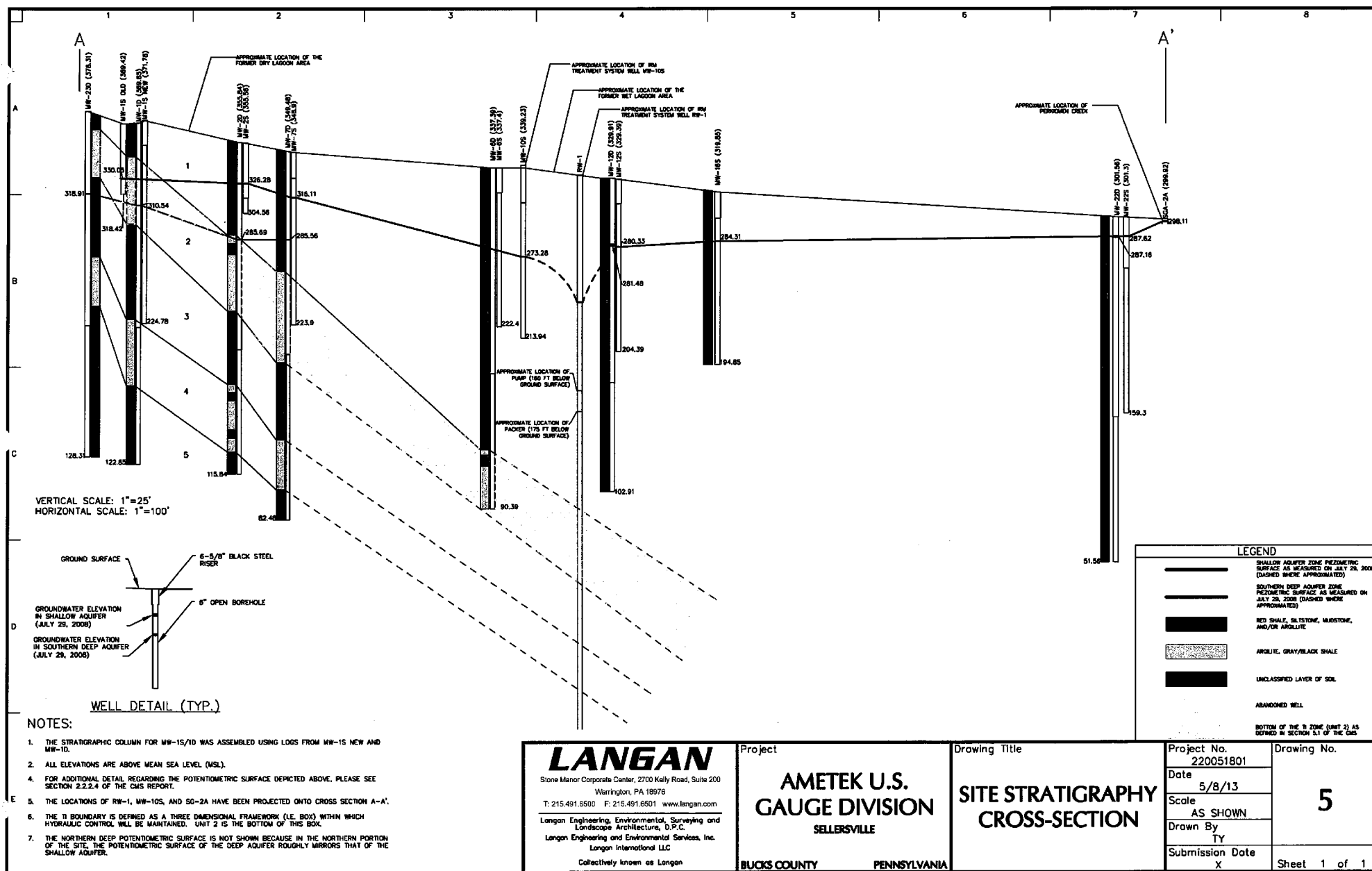
Submission Date

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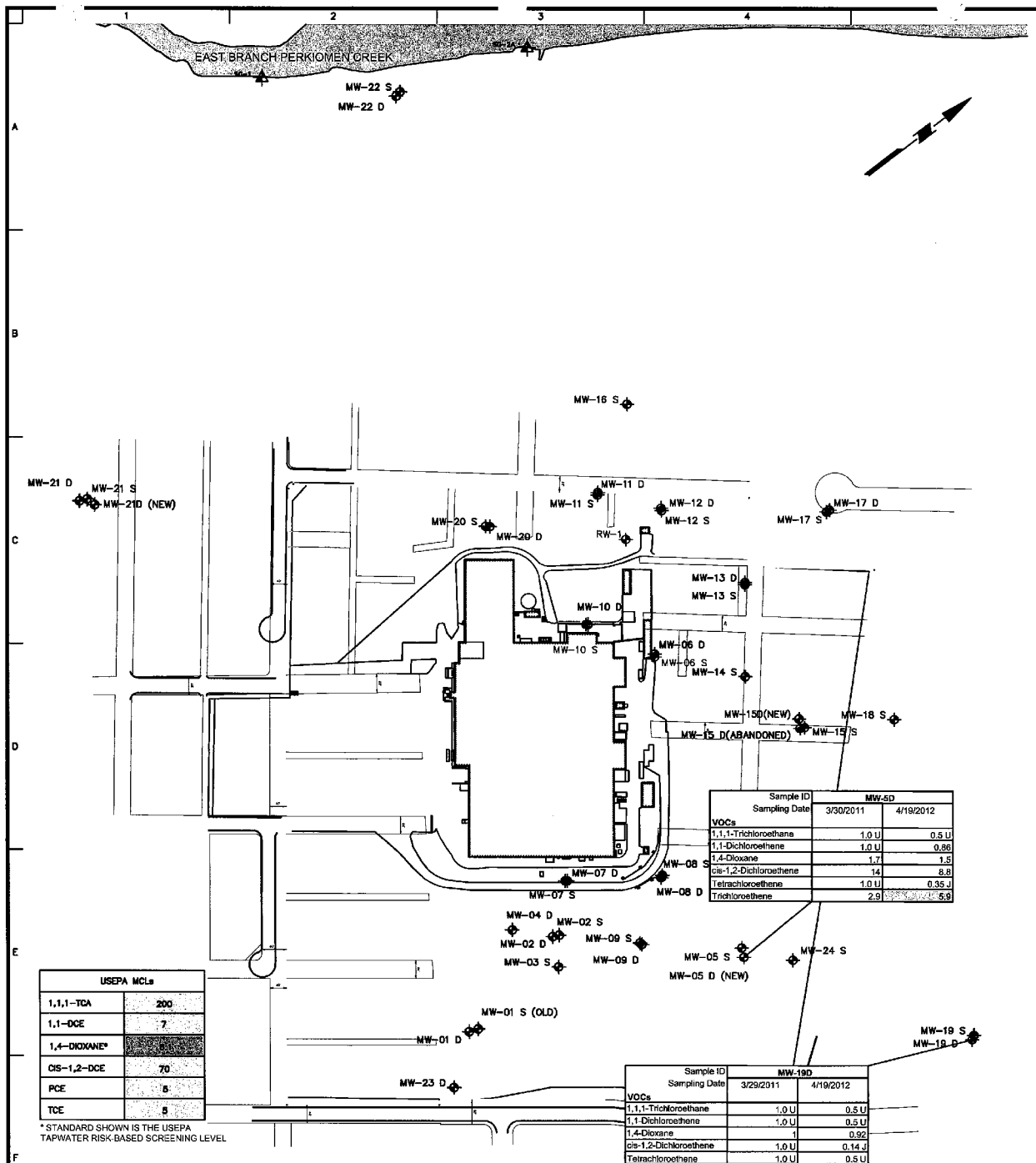
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Sheet 1 of 1



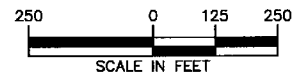




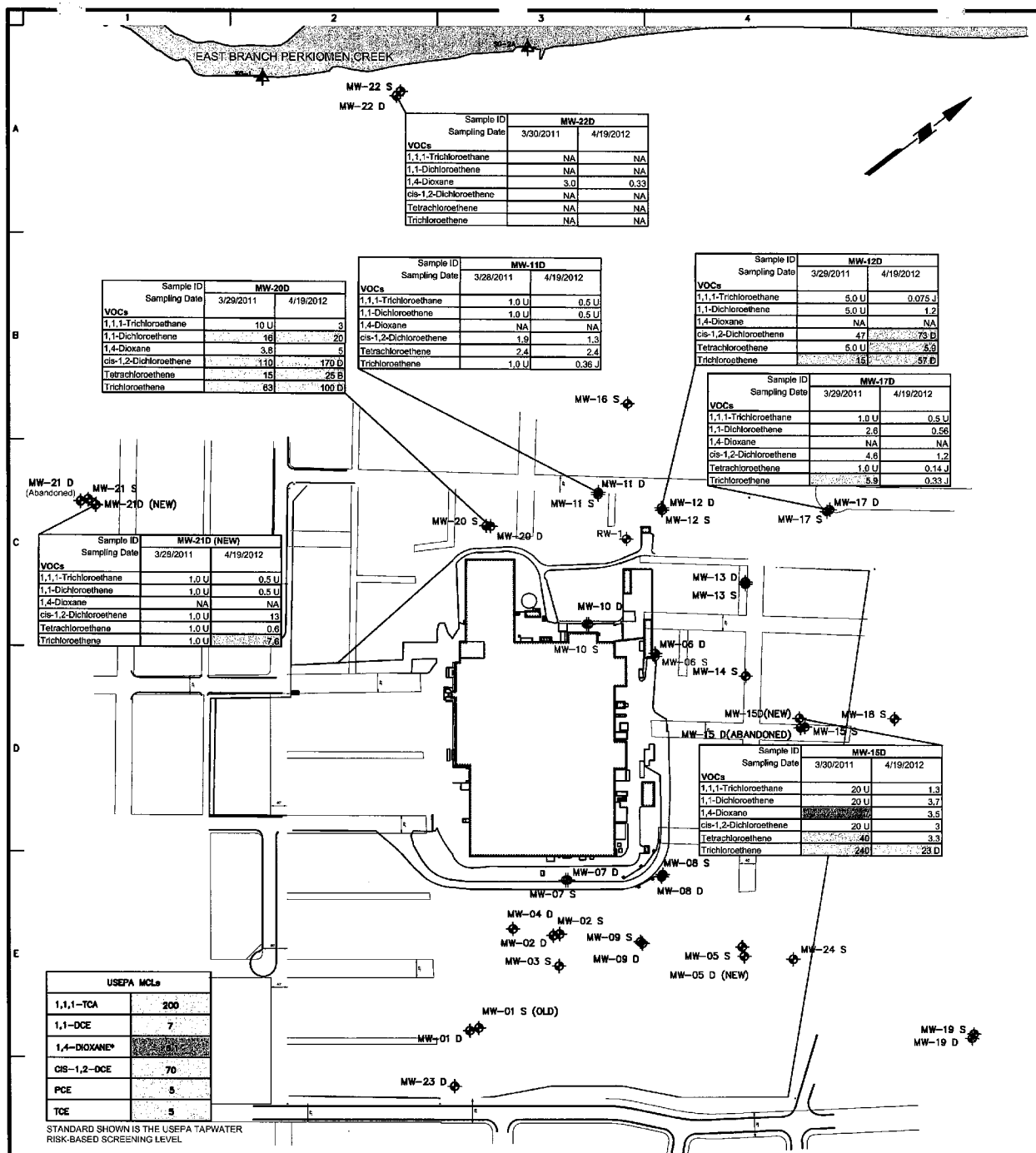
# LEGEND

- TI BOUNDARY
- PROPERTY NOT OWNED BY AMETEK
- MONITORING WELLS THAT COMPRISE THE TI BOUNDARY MONITORING WELL NETWORK.
- MW-230 SITE MONITORING WELL LOCATION
- RW-1 IRM PUMPING WELL LOCATION
- DATA QUALIFIERS:**
- U = THE COMPOUND WAS ANALYZED FOR, BUT WAS NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT.
- D = THE REPORTED VALUE IS TAKEN FROM THE ANALYSIS OF A DILUTED SAMPLE.
- J = THE COMPOUND WAS POSITIVELY IDENTIFIED; THE ASSOCIATED NUMERICAL VALUE IS THE APPROXIMATE CONCENTRATION OF THE ANALYTE IN THE SAMPLE.
- B = THE COMPOUND WAS FOUND IN THE BLANK AND SAMPLE.
- E = THE RESULT EXCEEDED THE CALIBRATION RANGE.

- GROUNDWATER CONSTITUENTS THAT EXCEEDED USEPA'S MAXIMUM CONTAMINANT LEVELS ARE HIGHLIGHTED IN BLUE. 1,4-DIOXANE LEVELS THAT EXCEED THE USEPA'S TAPWATER RISK-BASED SCREENING LEVELS OF 6.1 µg/L ARE HIGHLIGHTED IN GREEN.
- NEW SITE WIDE BASEMAP SURVEY WAS SURVEYED BY TAYLOR WISEMAN & TAYLOR ON NOVEMBER 2011.
- 10% OF LABORATORY PROVIDED ANALYTICAL DATA HAS BEEN INDEPENDENTLY VALIDATED IN ACCORDANCE WITH PROJECT PROTOCOL.
- NA = NOT ANALYZED
- ALL CONCENTRATIONS ARE IN MICROGRAMS/LITER (µg/L).
- THE MW-6D (FORMER GROUNDWATER RECOVERY WELL) GROUNDWATER RECOVERY PUMP HAS BEEN DISCONNECTED, NO SAMPLE CAN BE COLLECTED.
- TI MONITORING WELLS DISPLAYED IN BLUE COMPRISE THE TI BOUNDARY MONITORING WELL NETWORK. MW-21S AND MW-21D (NEW) LIE BEYOND THE TI BOUNDARY, HOWEVER, THEY WILL BE MONITORED UNTIL MCLs ARE OBTAINED. IN ADDITION, MW-22D WILL BE MONITORED FOR 1,4-DIOXANE.
- THE MAIN BUILDING AND OUT STRUCTURES WERE DEMOLISHED IN JUNE 2012.
- PBA 10 WAS DEACTIVATED ON MARCH 23, 2007 AND REACTIVATED ON SEPT 9, 2012.



<b>LANGAN</b> Stone Manor Corporate Center, 2700 Kelly Road, Suite 200 Warrington, PA 18676 T: 215.491.6500 F: 215.491.6501 www.langan.com Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc. Langan International LLC Collectively known as Langan	Project <b>AMETEK U.S. GAUGE DIVISION</b> SELLERSVILLE BUCKS COUNTY PENNSYLVANIA	Drawing Title <b>DEEP AQUIFER (SOUTH) VOC AND 1,4-DIOXANE RESULTS - MARCH 2011 &amp; APRIL 2012</b>	Project No. 220051801 Date 5/8/13 Scale 1"=250' Drawn By MK Submission Date X	Drawing No. <b>7</b> Sheet 1 of 1
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## LEGEND

- TI BOUNDARY
- PROPERTY NOT OWNED BY AMETEK
- MONITORING WELLS THAT COMPRISE THE TI BOUNDARY MONITORING WELL NETWORK
- MW-1
- MW-23D
- Site Monitoring Well Location
- RW-1
- IRM Pumping Well Location

## DATA QUALIFIERS:

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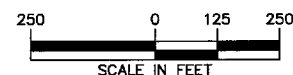
ALL CONCENTRATIONS ARE IN MICROGRAMS/LITER (µg/L).

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GAUGE DIVISION**  
SELLERSVILLE

BUCKS COUNTY

PENNSYLVANIA

Drawing Title

**DEEP AQUIFER (NORTH) VOC  
AND 1,4-DIOXANE RESULTS -  
MARCH 2011 & APRIL 2012**

Project No.

220051801

Date

5/8/13

Scale

1"=250'

Drawn By

MK

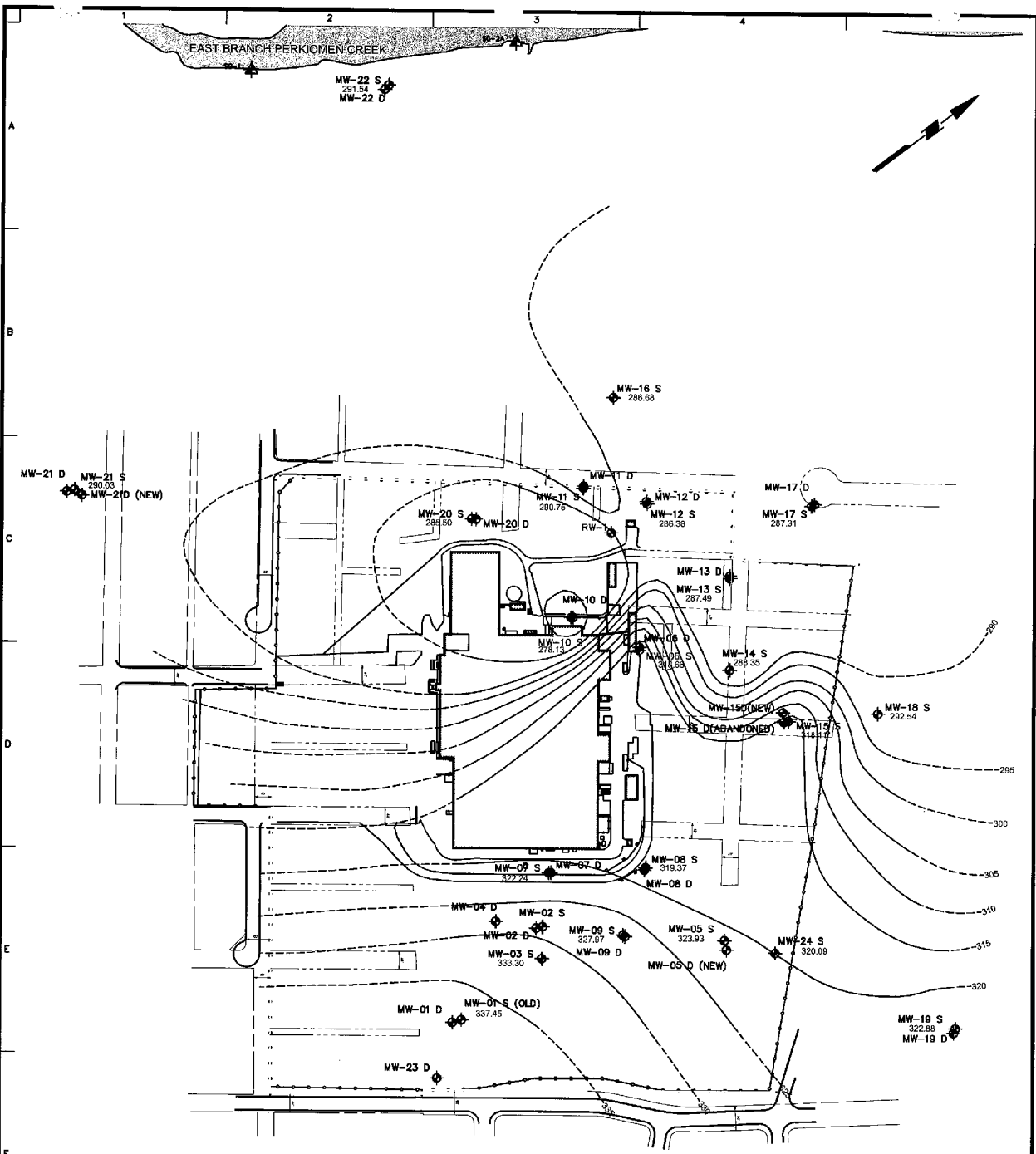
Submission Date

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Drawing No.

**8**

Sheet 1 of 1

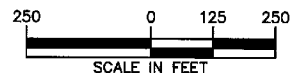


#### NOTES:

- NEW SITE WIDE BASEMAP SURVEY WAS SURVEYED BY TAYLOR WISEMAN & TAYLOR ON NOVEMBER 2011.
- SOME MODIFICATIONS HAVE BEEN MADE TO THE GROUNDWATER MODELING SYSTEM VERSION 5.0 OUTPUT (CONTOURS) BASED ON SITE GEOLOGY AND KNOWLEDGE OF SITE CONDITIONS.
- RW-1, MW-8S, & MW-10S ARE ACTIVE IRM SYSTEM GROUNDWATER RECOVERY WELLS.
- MW-1S(NEW), MW-5D, AND MW-14D WERE ABANDONED AND REPLACEMENT WELL MW-6D(NEW) WAS INSTALLED, APRIL 2005 AS RECOMMENDED IN THE FINAL LETTER REPORT ON THE ADDITIONAL ENVIRONMENTAL INVESTIGATION ACTIVITIES CONDUCTED IN JULY 2004 (REPORT).
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#### LEGEND

- INTERPRETED GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- INFERRED GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- TI BOUNDARY
- PROPERTY NOT OWNED BY AMETEK
- MONITORING WELLS THAT COMPRISE THE TI BOUNDARY MONITORING WELL NETWORK.
- SITE MONITORING WELL LOCATION
- IRM PUMPING WELL LOCATION



SCALE IN FEET

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SELLERSVILLE**

BUCKS COUNTY

PENNSYLVANIA

Drawing Title

**SHALLOW AQUIFER  
GROUNDWATER  
CONTOURS -  
MARCH 2011**

Project No.  
220051801

Date  
5/8/13

Scale  
1"=250'

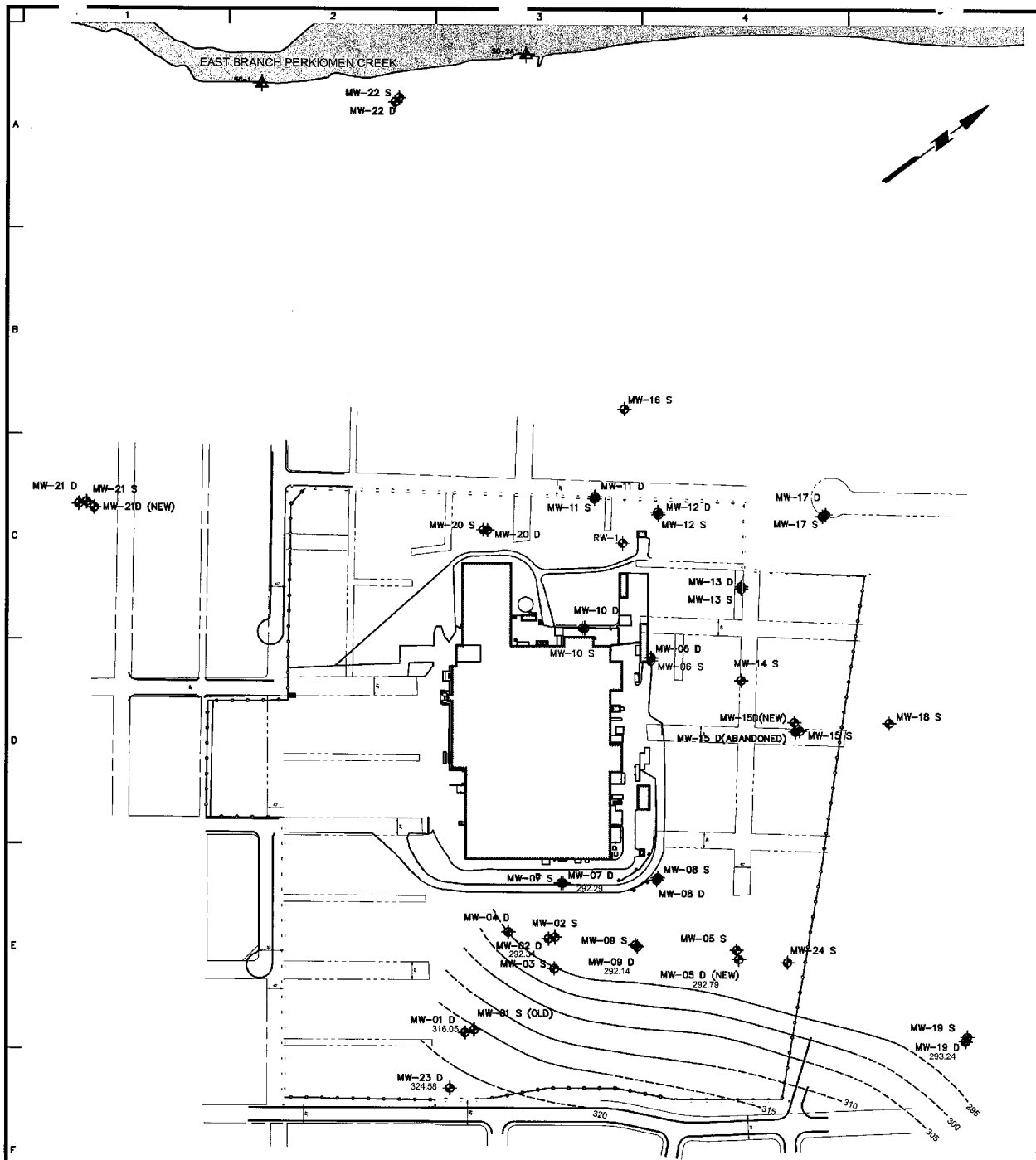
Drawn By  
MK

Submission Date  
X

Drawing No.

**9**

Sheet 1 of 1



#### NOTES:

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- RW-1, MW-6S, & MW-10S ARE ACTIVE IRM SYSTEM GROUNDWATER RECOVERY WELLS.

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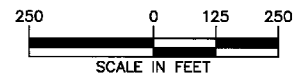
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#### LEGEND

- INTERPRETED GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- - - INFERRED GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- TI BOUNDARY
- PROPERTY NOT OWNED BY AMETEK
- MW-1, MW-23D, RW-1 MONITORING WELLS THAT COMPRISE THE TI BOUNDARY MONITORING WELL NETWORK.
- SITE MONITORING WELL LOCATION
- IRM PUMPING WELL LOCATION



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GAUGE DIVISION  
SELLERSVILLE**

BUCKS COUNTY

PENNSYLVANIA

Drawing Title

**DEEP AQUIFER (SOUTH)  
GROUNDWATER  
CONTOURS - MARCH 2011**

Project No.

220051801

Date

5/8/13

Scale

1"=250'

Drawn By

MK

Submission Date

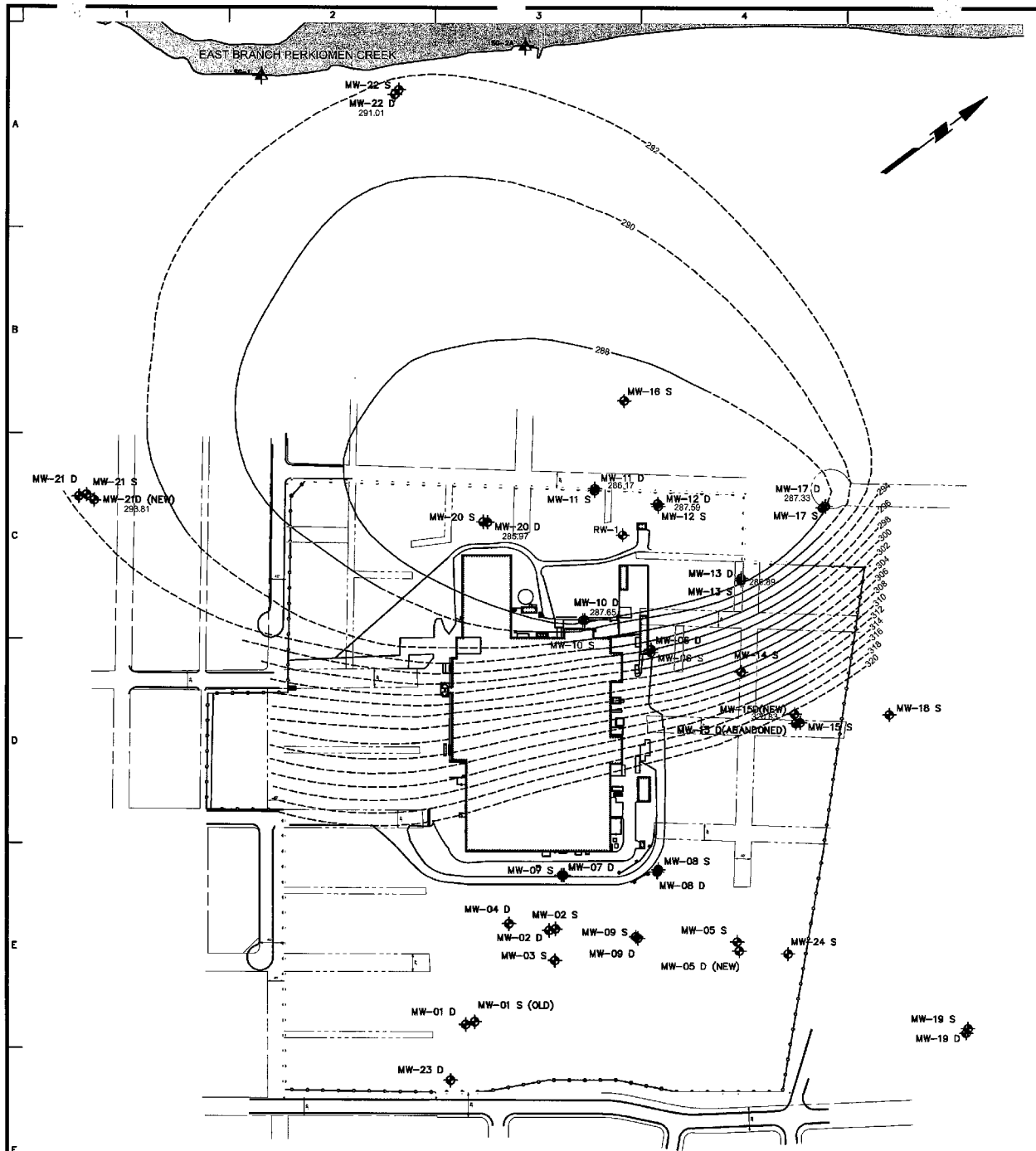
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Drawing No.

**10**

Sheet 1 of 1





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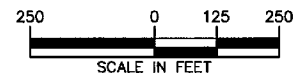
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#### LEGEND

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- INFERRED GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- TI BOUNDARY
- PROPERTY NOT OWNED BY AMETEK
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SELLERSVILLE**

BUCKS COUNTY

PENNSYLVANIA

Drawing Title

**DEEP AQUIFER (NORTH)  
GROUNDWATER  
CONTOURS - MARCH 2011**

Project No.

220051801

Date

5/8/13

Scale

1"=250'

Drawn By

MK

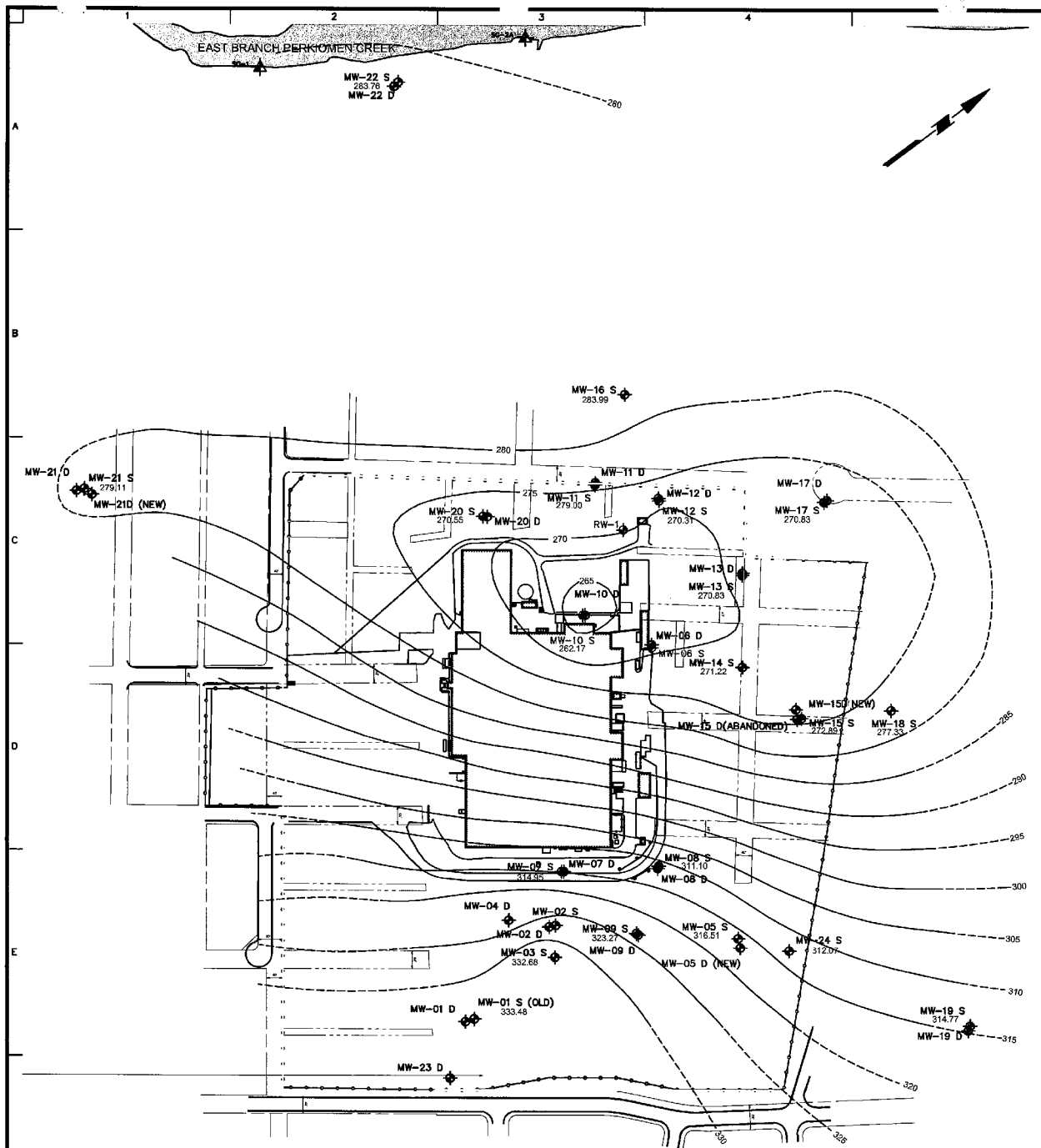
Submission Date

X

Drawing No.

**11**

Sheet 1 of 1



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SELLERSVILLE**

BUCKS COUNTY

PENNSYLVANIA

Drawing Title

**SHALLOW AQUIFER  
GROUNDWATER  
CONTOURS - APRIL 2012**

Project No.

220051801

Date

5/8/13

Scale

1"=250'

Drawn By

MK

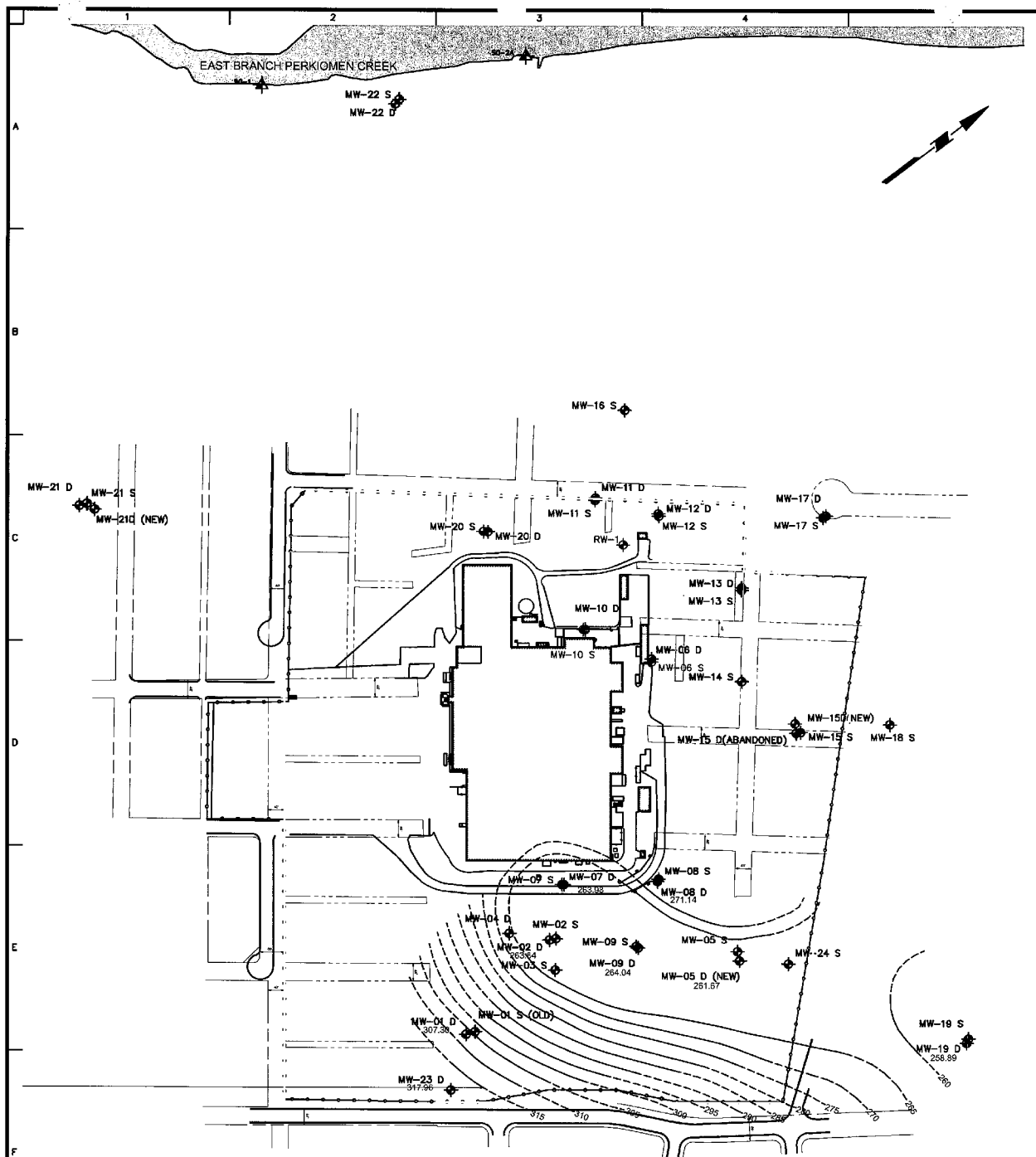
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X

Drawing No.

**12**

Sheet 1 of 1



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- THE MAIN BUILDING AND OUT STRUCTURES WERE DEMOLISHED IN 2012.
- PBA 10 WAS DEACTIVATED ON MARCH 23, 2007 AND REACTIVATED ON SEPT 9, 2012.

#### LEGEND

- INTERPRETED GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- INFERRED GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- TI BOUNDARY
- PROPERTY NOT OWNED BY AMETEK
- MW-1, MW-23D, RW-1 MONITORING WELLS THAT COMPRISE THE TI BOUNDARY MONITORING WELL NETWORK.
- SITE MONITORING WELL LOCATION
- IRM PUMPING WELL LOCATION



**LANGAN**

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Longan Engineering, Environmental, Surveying and  
Landscape Architecture, D.P.C.  
Longan Engineering and Environmental Services, Inc.  
Longan International LLC

Collectively known as Longan

Project

**AMETEK U.S.  
GAUGE DIVISION  
SELLERSVILLE**

BUCKS COUNTY

PENNSYLVANIA

Drawing Title

**DEEP AQUIFER (SOUTH)  
GROUNDWATER  
CONTOURS - APRIL 2012**

Project No.

220051801

Date

5/8/13

Scale

1"=250'

Drawn By

MK

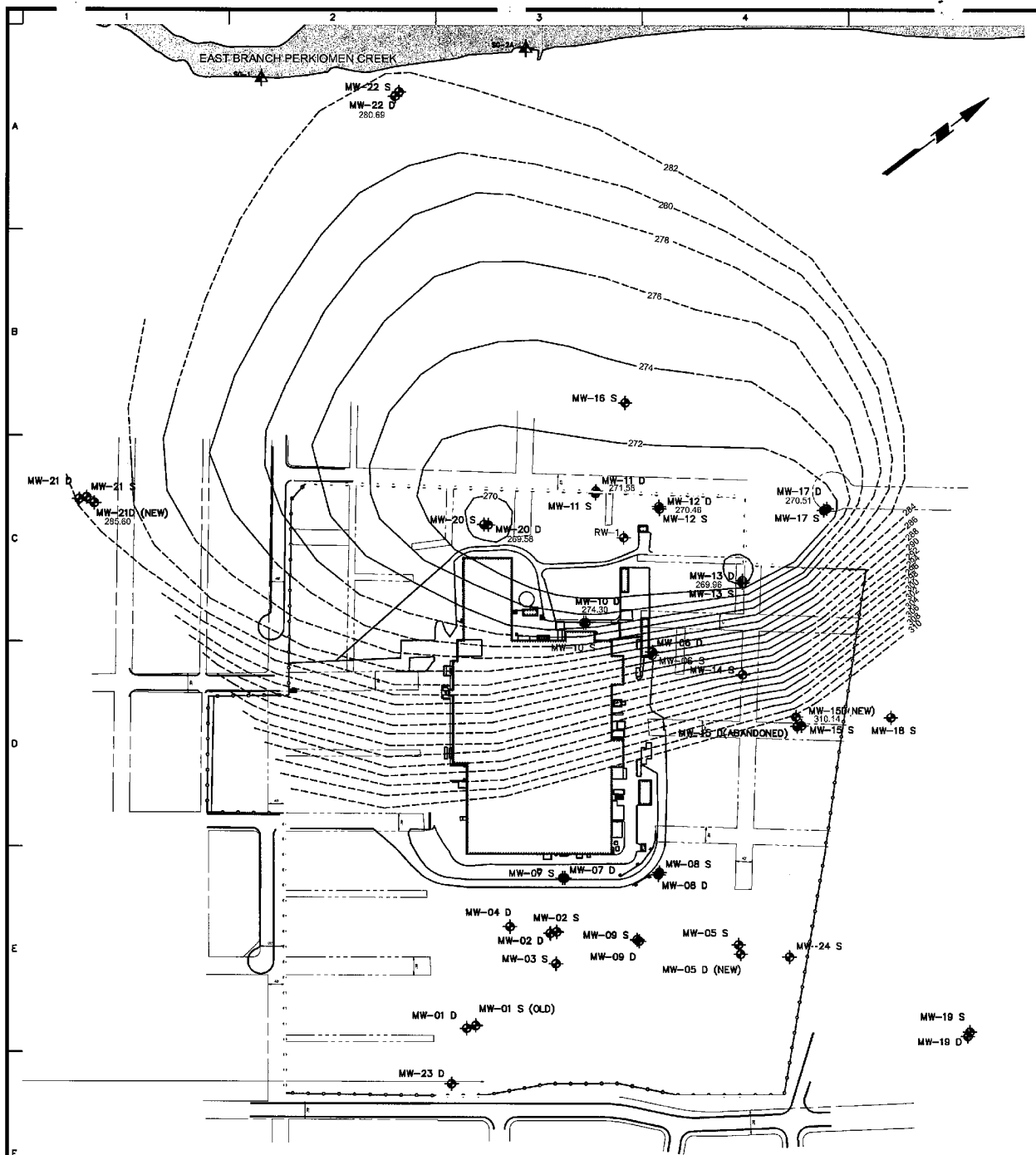
Submission Date

X

Drawing No.

**13**

Sheet 1 of 1



#### NOTES:

- NEW SITE WIDE BASEMAP SURVEY WAS SURVEYED BY TAYLOR WISEMAN & TAYLOR ON NOVEMBER 2011.

- SOME MODIFICATIONS HAVE BEEN MADE TO THE GROUNDWATER MODELING SYSTEM VERSION 5.0 OUTPUT (CONTOURS) BASED ON SITE GEOLOGY AND KNOWLEDGE OF SITE CONDITIONS.

- RW-1, MW-6S, & MW-10S ARE ACTIVE IRM SYSTEM GROUNDWATER RECOVERY WELLS.

- MW-1S(NEW), MW-5D, AND MW-14D WERE ABANDONED AND REPLACEMENT WELL MW-5D(NEW) WAS INSTALLED. APRIL 2005 AS RECOMMENDED IN THE FINAL LETTER REPORT ON THE ADDITIONAL ENVIRONMENTAL INVESTIGATION ACTIVITIES CONDUCTED IN JULY 2004 (REPORT).

- WELLS MW-21D (NEW) AND MW-15D (NEW) WERE INSTALLED TO REPLACE MW-15D AND MW-21D IN FEBRUARY 2006. MW-21D AND MW-15D APPEAR TO HAVE BEEN OVER GROUTED DURING THE APRIL 2005 PARTIAL ABANDONMENT EFFORT AND WERE NOT IN HYDRAULIC COMMUNICATION WITH THE AQUIFER. MW-15D AND MW-21D WERE ABANDONED ON FEBRUARY 9, 2006 AND APRIL 13, 2006, RESPECTIVELY.

- TI MONITORING WELLS DISPLAYED IN BLUE COMPRISE THE TI BOUNDARY MONITORING WELL NETWORK. MW-21S AND MW-21D (NEW) LIE BEYOND THE TI BOUNDARY, HOWEVER, THEY WILL BE MONITORED UNTIL MCLs ARE OBTAINED. IN ADDITION, MW-22D WILL BE MONITORED FOR 1,4-DIOXANE.

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#### LEGEND

- INTERPRETED GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- - - - - INFERRED GROUNDWATER CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- TI BOUNDARY
- PROPERTY NOT OWNED BY AMETEK
- MW-1 MONITORING WELLS THAT COMPRISE THE TI BOUNDARY MONITORING WELL NETWORK
- MW-23D SITE MONITORING WELL LOCATION
- RW-1 IRM PUMPING WELL LOCATION



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GAUGE DIVISION**  
SELLERSVILLE

BUCKS COUNTY

PENNSYLVANIA

Drawing Title

**DEEP AQUIFER (NORTH)  
GROUNDWATER  
CONTOURS - APRIL 2012**

Project No.

220051801

Date

5/8/13

Scale

1"=250'

Drawn By

MK

Submission Date

X

Drawing No.

**14**

Sheet 1 of 1